

STN	Dôveryhodné dátové transakcie Časť 1: Terminológia, koncepty a mechanizmy	STN EN 18235-1 97 4236
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Trusted data transactions - Part 1: Terminology, concepts and mechanisms

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

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English version

Trusted data transactions - Part 1: Terminology, concepts and mechanisms

Transactions de données de confiance - Partie 1:
Terminologie, concepts et mécanismes

Vertrauenswürdige Datentransaktionen - Teil 1:
Terminologie, Konzepte und Mechanismen

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CEN-CENELEC Management Centre:
Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 18235-1:2026) has been prepared by Technical Committee CEN/CLC JTC 25 “Data Management, Dataspaces, Cloud and Edge”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2026, and conflicting national standards shall be withdrawn at the latest by September 2026.

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EN 18235-1:2026 (E)**Introduction**

Data are now the backbone of the digital economy, enabling economic growth and competitiveness, fostering innovation, improving public services or advancing scientific research. Seamless and secure cross-border and cross-industry data flows, within and across data spaces or data ecosystems, have become crucial for businesses and individuals worldwide. As technologies such as artificial intelligence (AI) and internet of things (IoT) continue to evolve and spread, the importance of data exchange, data sharing and data flows will only become more significant.

In its Communication on a European strategy for data of February 29, 2020, the Commission describes its vision for the data economy, based on European values and fundamental rights and the conviction that the human being remains at the centre.

Data spaces foster an ecosystem aiming to facilitate cross-border data flow and harmonizing regulations across sectors within the EU, ensuring adherence to European rules and values such as personal data protection, consumer protection, and fair competition.

The European strategy for data also seeks to establish clear, practical, and transparent rules for data access and usage, alongside robust governance mechanisms, while adopting an open yet principled approach to international data flows.

The legal environment around data exchanges and data transactions plays an essential role in the development of data ecosystems, fostering a trust framework for all stakeholders. In Europe some of the key regulations are:

- the Data Governance Act (DGA), which entered in force in the EU in June 2022 and is in application since September 24, 2023. The DGA is a cross-sectoral instrument that aims to make more data available by regulating the re-use of certain categories of protected data held by public sector bodies, by boosting data sharing through the regulation of data intermediaries and by encouraging the sharing of data for altruistic purposes. Both personal and non-personal data are in scope of the DGA, and wherever personal data are concerned, the General Data Protection Regulation (GDPR) applies. In addition to the GDPR, inbuilt safeguards will increase trust in data sharing and re-use, a prerequisite to making more data available on the market.
- the Data Act, which entered into force in January 2024 and has been applicable since September 2025. While the Data Governance Act creates the processes and structures to facilitate data sharing, the Data Act clarifies who can create value from data and under which conditions and provides legal clarity for businesses as regards the use of data. The Data Act aims to facilitate the development of new services leveraging Europe's wealth of data, but also ensures fairness by regulating the rights and obligations of all the economic actors involved in sharing data, particularly from Internet of Things (IoT) devices.

Along with reference architectures, trust frameworks and data regulations, the existence of standards-based solutions recognized by the community represents another key pillar for developing collaborations around data, across borders and across industries, easily, effectively while facilitating interoperability.

This document focuses on the subject of trusted data transactions.

1 Scope

This document provides terminology, concepts and a description of mechanisms in the field of data exchange focusing on trusted data transactions.

Those elements can be used in the development of standards in support of trusted data transactions and constitute a basis to identify key dimensions and criteria that contribute to the trust in a data transaction between interested parties.

Therefore, those elements constitute a foundational understanding on which trusted data transactions can be based, independently of any architectural choices or technical implementation.

2 Normative references

There are no normative references in this document.

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